Improved Nyquist Filter and Method

ABSTRACT

An improved Nyquist filter can be used as a matched filter in a digital

5   communications system. This filter is characterized in that the frequency domain

response meets the Nyquist criteria and that the square root of the frequency domain

response has a first derivative that is continuous at all points. In other embodiments, the

square root of the frequency domain response continuous over all points for all higher

order derivatives.

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